

What is claimed is:

1. An audio signal switching mechanism, comprising at least an audio signal changing-over unit for selecting a signal input from an external signal source; a micro-processing unit electrically connected to said audio signal changing-over unit for processing an input signal selected by the latter; a double-tone multi-frequency receiving unit electrically connected to said micro-processing unit for detecting and decoding any signal input from an external signal source, and sending the decoded input signal to said micro-processing unit; and an audio signal multiplex processing unit electrically connected to said micro-processing unit and said audio signal changing-over unit for selecting or switching a signal passing through said audio signal changing-over unit or input via an external signal source.
2. The audio signal switching mechanism as claimed in claim 1, wherein said audio signal changing-over unit, said micro-processing unit, said double-tone multi-frequency receiving unit, said audio signal multiplex processing unit are electrically

connected to a power supply unit.

3. The audio signal switching mechanism as claimed in
claim 2, wherein said power supply unit has a power
5 supply socket electrically connected thereto.

4. The audio signal switching mechanism as claimed in
claim 1, wherein said audio signal changing-over unit
has a microphone socket electrically connected
10 thereto.

5. The audio signal switching mechanism as claimed in
claim 1, wherein said audio signal changing-over unit
has an audio signal source socket electrically
15 connected thereto.

6. The audio signal switching mechanism as claimed in
claim 1, wherein said double-tone multi-frequency
receiving unit has a first communication socket
20 electrically connected thereto.

7. The audio signal switching mechanism as claimed in
claim 1, wherein said audio signal changing-over unit,
said micro-processing unit, said double-tone
25 multi-frequency receiving unit, and said audio

signal multiplex processing unit are integrated on one single chip.

8. The audio signal switching mechanism as claimed in
5 claim 2, wherein said audio signal changing-over unit, said micro-processing unit, said double-tone multi-frequency receiving unit, and said audio signal multiplex processing unit are integrated on one single chip.

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9. The audio signal switching mechanism as claimed in
claim 6, wherein said first communication socket has a communication carrier electrically connected thereto.

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10. The audio signal switching mechanism as claimed in
claim 9, wherein said communication carrier comprises a fax machine.

20 11. The audio signal switching mechanism as claimed in
claim 9, wherein said communication carrier comprises a telephone.

25 12. The audio signal switching mechanism as claimed in
claim 11, wherein said telephone comprises a wired

telephone.

13. The audio signal switching mechanism as claimed in
claim 11, wherein said telephone comprises a wireless
5 telephone.

14. The audio signal switching mechanism as claimed in
claim 1, wherein said audio signal multiplex
processing unit has a second communication socket
10 electrically connected thereto.

15. The audio signal switching mechanism as claimed in
claim 14, wherein said second communication socket
has a signal line electrically connected thereto.

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16. The audio signal switching mechanism as claimed in
claim 15, wherein said signal line comprises a
telephone line.

20 17. The audio signal switching mechanism as claimed in
claim 4, wherein said microphone socket has a
microphone electrically connected thereto.

25 18. The audio signal switching mechanism as claimed in
claim 5, wherein said audio signal source socket has

a signal-generating apparatus electrically connected thereto.

19. The audio signal switching mechanism as claimed in
5 claim 18, wherein said signal-generating apparatus comprises a computer.

20. The audio signal switching mechanism as claimed in
claim 18, wherein said signal-generating apparatus
10 comprises a stereo system.

21. The audio signal switching mechanism as claimed in
claim 18, wherein said signal-generating apparatus comprises a television set.

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